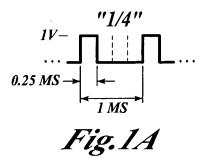
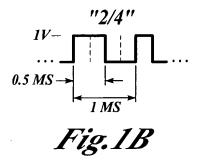
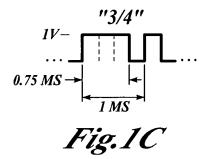
T.







NUMBER OF UNIT PULSE LENGTHS	MODULATOR BINARY OUTPUT COMBINATIONS	TIMER STATE	EFFECTIVE DUTY CYCLE			
0	0 0 0 0 0 0	0 1 0	= 0% (0/8)			
1	0 0 0 0 0 1	1 0 1	- 12 50/ (1/9)			
	0 1 0 0 0 1	0 1 0	= 12.5% (1/8)			
2	0 1 0 1 0 1	1 0 1	= 25% (2/8 = 1/4)			
	0 0 1 0 1 0	0 1 0	- 2370 (2/0 - 1/4)			
3	0 0 0 0 1 1	1 0 1				
	1 1 0 0 0 1	0 1 0	= 37.5% (3/8)			
	1 0 1 0 0 1	1 0 1				
5	0 1 1 1 1 1	0 1 0				
	0 1 1 0 1 0	1 0 1	=50% (4/8=1/2)			
	1 0 1 0 1 0	0 1 0				
	1 1 1 1 1 0	1 0 1	= 62.5% (5/8)			
6	1 1 1 1 1 1	0 1 0	= 75% (6/8 = 3/4)			
W. 400.40	1 1	1				

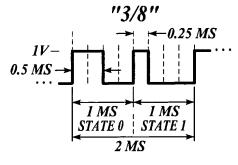


Fig.3A

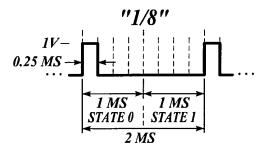
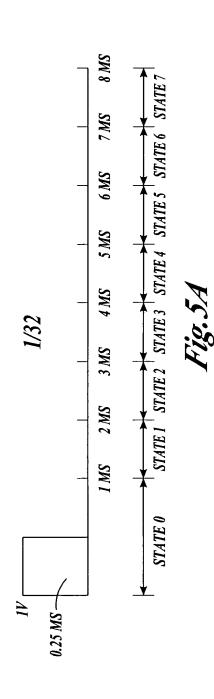


Fig.3B

* INDICATES OVERFLOW BIT

DUTY CYCLE	POSSIBLE MODULATOR BINARY OUTPUT COMBINATIONS	TIMER STATE
0% (0/8)	0 0	0
12.5% (1/8)	0 1 0 0	1
	0 0 0 1 0 0	0 1 0
25% (2/8)	1 0	1
	1 0 0 0	0 1 0
	0 1 0 1	0 1
37.5% (3/8)	0 0 1 1	1
	1 1 0 0	0 1
	0 1 1 0	0 1
	1 0 0 1	0
50% (4/8)	0 0 1*00	0 1
	1* 00 0 0	0 1
	0 1 1 1	0 1
	1 1 0 1	0 1
	1 0 1 0	0 1
62.5% (5/8)	0 1 1* 00	0 1
	1* 00 0 1	0
	1 1 1 1 0	0
	1 0 1 1	0
75% (6/8)	1* 00 1 0	0 1
	1 0 1*00 1 1	0
	1 1 1 1 1*00	0
87.5% (7/8)	1 1	0
	1 1 1* 00	1 0 1
100% (8/8)	1* 00 1* 00	0

Fig.4



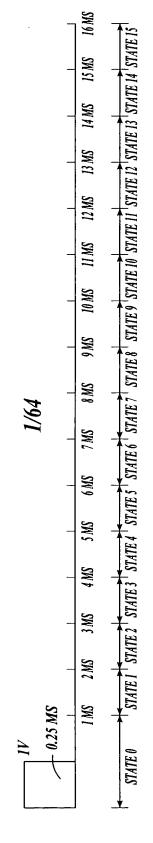


Fig.5B

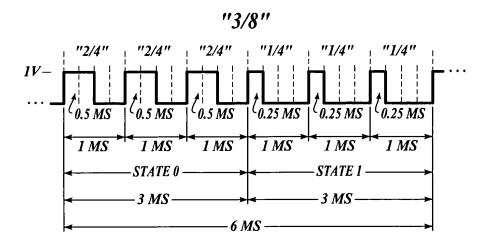


Fig.6

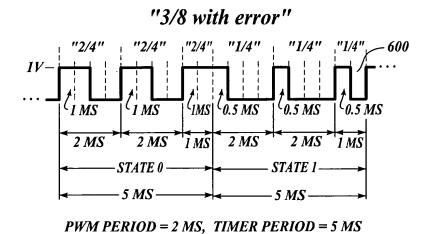
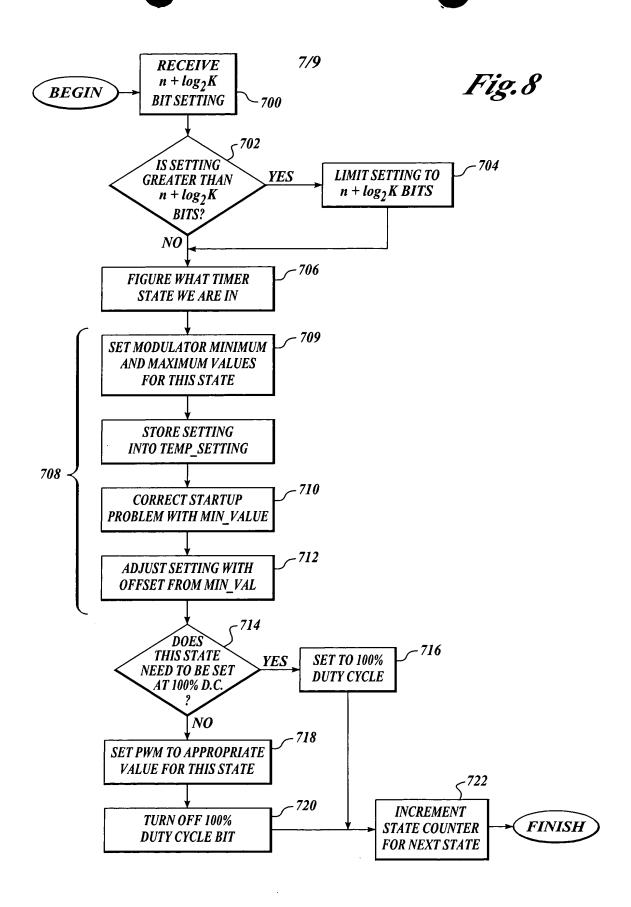


Fig. 7



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TOTAL PULSE DURATION AS		MODULATOR OUTPUT IN EACH TIMER STATE							
MEASURED IN UNIT	TIMER STATE								
PULSE LENGTHS	1	2	3	4	5	6	7	8	
0	0	0	0	0	0	0	0	0	
1	1	0	0	0	0	0	0	0	
2	1	0	0	0	1	0	0	0	
3	1	0	1	0	1	0	0	0	
4	1	0	1	0	1	0	1	0	
5	1	1	1	0	1	0	1	0	
6	1	1	1	0	1	1	1	0	
7	1	1	1	1	1	1	1	0	
8	1	1	1	1	1	1	1	1	
9	2	1	1	1	1	1	1	1	
10	2	1	1	1	2	1	1	1	
11	2	1	2	1	2	1	1	1	
12	2	1	2	1	2	1	2	1	
13	2	2	2	1	2	1	2	1	
14	2	2	2	1	2	2	2	1	
15	2	2	2	2	2	2	2	1	
16	2	2	2	2	2	2	2	2	
17	3	2	2	2	2	2	2	2	
18	3	2	2	2	3	2	2	2	
19	3	2	3	2	3	2	2		
20	3	2	3	2	3	2	3	2	
21	3	3	3	2	3	2	3	2	
22	3	3	3	2	3	3	3	2	
23	3	3	3	3	3	3	3	2	
24	3	3	3	3	3	3	3	3	
: :	:	•	•	•	:	•	•	•	
2040	255	255	255	255	255	255	255	255	
:	:	•	•	:	•	•	•	•	
2047	256	256	256	256	256	256	256	256	

Fig.9

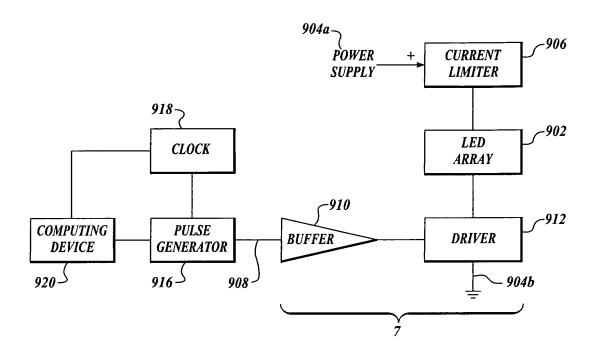


Fig.10